BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Drains and Asphalting to Roads in Shirdi Sai Nagara and Hegdenagara in Ward No 06 Byatarayanapura Sub Division

Construction Cost: 5000000.00

	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.133, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Desilt	Cum							
	Shirdi Sai Nagar								
	Road 1		2	460.00	0.45	0.45	186.30		
	Road 2		2	470.00	0.45	0.45	190.35		
	Road 3		2	440.00	0.45	0.45	178.20		
	Prashanthinagar								
	Road 1		2	222.00	0.45	0.45	89.91		
	Road 2		2	201.00	0.45	0.45	81.41		
	Road 3		2	178.00	0.45	0.45	72.09		
	New Drain								
	Cross Road between 2nd and 3rd Cross		2	35.00	0.60	0.60	25.20		
							823.46	170.92	**140745.78**
	Basic rate	**82.00**							
	Loading and unloading with 5km lead= 68+2.5x1.28x10 =	**84.00**							
	Area Weightage 6%	**4.92**							
	Final Rate	**170.92**							
2	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(5.31.1								
	Drain	Cum							
	Shirdi Sai Nagar								
	Cross Road between 2nd and 3rd Cross		2	35.00	1.35		94.50		
							94.50	665.68	**62906.76**
	Basic rate	**628.00**							
	Area Weightage 6%	**37.68**							
	Final Rate	**665.68**							
3	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per								
	Drain	Cum							
	Culvert Slabs								
	Damaged		2	5.70	1.80		20.52		
							20.52	5317.00	**109104.84**
	Data Rate	**5317.00**							

Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.142, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
Bad Reaches	Cum							
		8	2.10	2.40	0.23	9.27		
		25	0.50	6.00	0.23	17.25		
		1	30.00	0.60	0.23	4.14		
		18	1.50	1.40	0.23	8.69		
UGD restoration		1	460.00	0.60	0.23	63.48		
		1	470.00	0.60	0.23	64.86		
		1	440.00	0.60	0.23	60.72		
Prashanthinagar								
Road 1		1	222.00	0.60	0.23	30.64		
Road 2		1	201.00	0.60	0.23	27.74		
Road 3		1	178.00	0.60	0.23	24.56		
Cross Road between 2nd and 3rd Cross		1	35.00	5.30	0.23	42.67		
						354.02	132.76	**46999.77**
Basic rate	**46.00**							
Loading and unloading with 5km lead= 68+2.5x1.28x10 =	**84.00**							
Area Weightage 6%	**2.76**							
Final Rate	**132.76**							
5 KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.157, I.No.20.18 of PW,P&IWTD SR 2016-17)								
Bad Reaches	Cum							
		8	2.10	2.40	0.23	9.27		
		25	0.50	6.00	0.23	17.25		
		1	30.00	0.60	0.23	4.14		
		18	1.50	1.40	0.23	8.69		
UGD restoration		1	460.00	0.60	0.23	63.48		
		1	470.00	0.60	0.23	64.86		
		1	440.00	0.60	0.23	60.72		
Prashanthinagar								
Road 1		1	222.00	0.60	0.23	30.64		
Road 2		1	201.00	0.60	0.23	27.74		
Road 3		1	178.00	0.60	0.23	24.56		
Cross Road between 2nd and 3rd Cross		1	35.00	5.30	0.23	42.67		
						354.02	1768.08	**625935.68**
Basic rate	**1668.00**							
Area Weightage 6%	**100.08**							
Final Rate	**1768.08**							

Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.160, I.No.21.6 of PW,P&IWTD SR 2016-17)								
Bad Reaches	Sqm							
		8	2.10	2.40	--	40.32		
		25	0.50	6.00	--	75.00		
		1	30.00	0.60	--	18.00		
		18	1.50	1.40	--	37.80		
UGD restoration		1	460.00	0.60	--	276.00		
		1	470.00	0.60	--	282.00		
		1	440.00	0.60	--	264.00		
Prashanthinagar								
Road 1		1	222.00	0.60	--	133.20		
Road 2		1	201.00	0.60	--	120.60		
Road 3		1	178.00	0.60	--	106.80		
Cross Road between 2nd and 3rd Cross		1	35.00	5.30	--	185.50		
						1539.22	27.56	**42420.90**
Basic rate	**26.00**							
Area Weightage 6%	**1.56**							
Final Rate	**27.56**							
7 KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.160, I.No.21.2 of PW,P&IWTD SR 2016-17)								
Road Formation	Sqm							
Shirdi Sai Nagar								
Road 1		1	460.00	5.30	--	2438.00		
Road 2		1	470.00	5.50	--	2585.00		
Road 3		1	440.00	5.60	--	2464.00		
Prashanthinagar								
Road 1		1	222.00	5.60	--	1243.20		
Road 2		1	201.00	5.20	--	1045.20		
Road 3		1	178.00	5.40	--	961.20		
Cross Road between 2nd and 3rd Cross		1	35.00	5.30	--	185.50		
						10922.10	3.18	**34732.28**
Basic rate	**3.00**							
Area Weightage 6%	**0.18**							
Final Rate	**3.18**							
8 KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.160 I.No.21.7 of PW,P&IWTD SR of 2016-17)								
For Laying BC	Sqm							
Shirdi Sai Nagar								
Road 1		1.00	460.00	5.30	--	2438.00		
Road 2		1.00	470.00	5.50	--	2585.00		
Road 3		1.00	440.00	5.60	--	2464.00		
Prashanthinagar								
Road 1		1.00	222.00	5.60	--	1243.20		
Road 2		1.00	201.00	5.20	--	1045.20		

	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Road 3		1.00	178.00	5.40	--	961.20		
	Cross Road between 2nd and 3rd Cross		1.00	35.00	5.30	--	185.50		
							10922.10	11.66	**127351.69**
	Basic rate	**11.00**							
	Area Weightage 6%	**0.66**							
	Final Rate	**11.66**							
	KSRRB M500-19. Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORT Specification No. 509 (P.No.164 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)								
	Road Formation	Cum							
	Shirdi Sai Nagar								
	Road 1		1	460.00	5.30	0.04	97.52		
	Road 2		1	470.00	5.50	0.04	103.40		
	Road 3		1	440.00	5.60	0.04	98.56		
	Prashanthinagar								
	Road 1		1	222.00	5.60	0.04	49.73		
	Road 2		1	201.00	5.20	0.04	41.81		
	Road 3		1	178.00	5.40	0.04	38.45		
	Cross Road between 2nd and 3rd Cross		1	35.00	5.30	0.04	7.42		
							436.88	7083.98	**3094877.52**
	Basic rate	**6683.00**							
	Area Weightage 6%	**400.98**							
	Final Rate	**7083.98**							
10	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.197, I.No.24.15 of PW,P&IWTD SR 2016-17)								
	Edge line								
			2	2006.00	0.10	--	401.20		
							401.20	542.72	**217739.26**
	Basic rate	**512.00**							
	Area Weightage 6%	**30.72**							
	Final Rate	**542.72**							
								Total Construction Cost	**4502814.48**
11								**Tender Premium 10%**	**450281.45**
12								**Cost towards Third Party Inspection @ 1%**	**45028.14**
								Sub Total	**4998124.08**
13								**Miscellaneous and rounding off**	**1875.92**
								Total	**5000000.00**

ADMINISTRATIVE APPROVAL
Accorded For Rs. Fifty lakhs only
Head of A/c P-3111
Div. Ref. No. 106/17-18 Date 19/12/17
AE 19/12
EE(BTP) 19/12

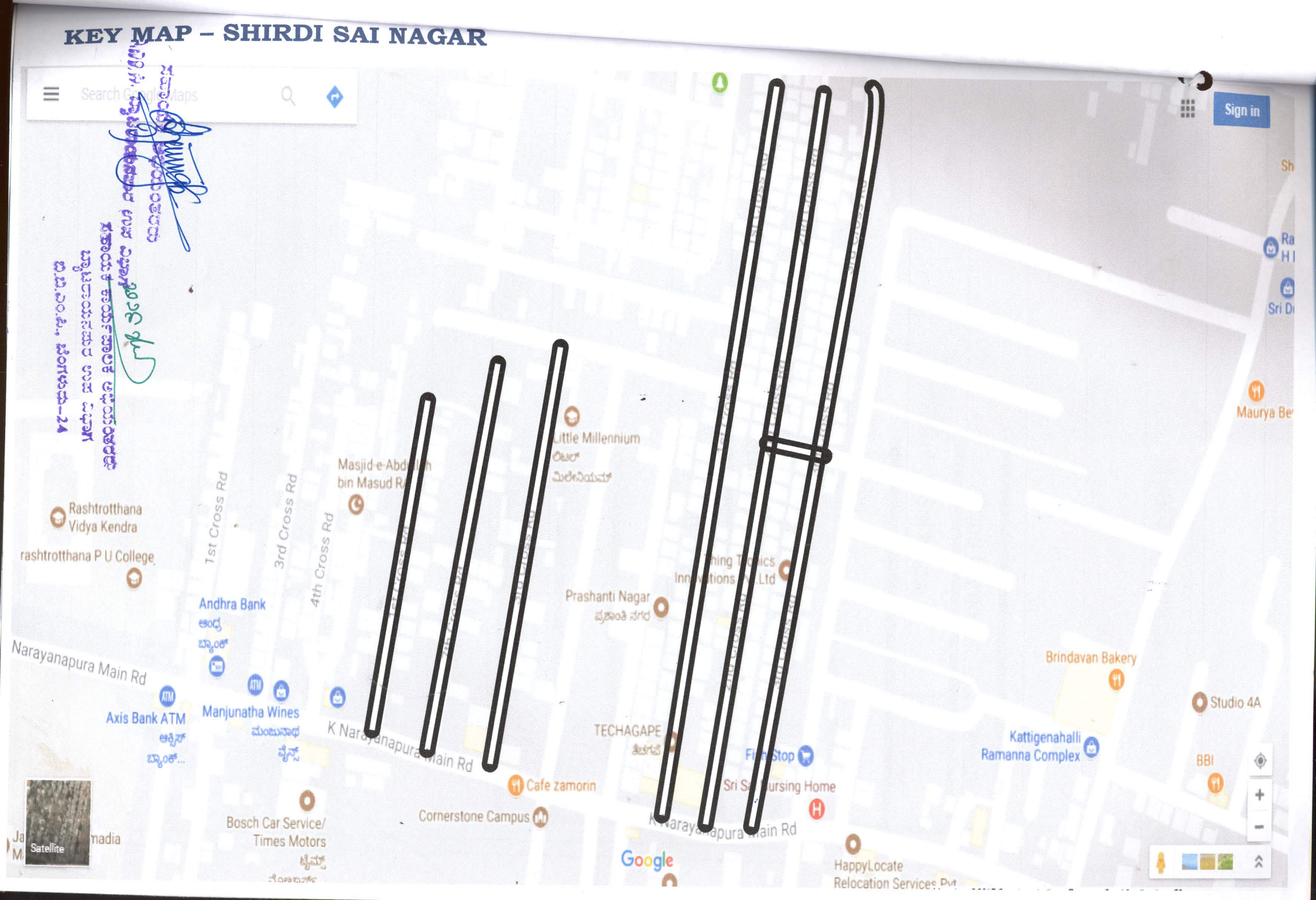
Technical Sanction
Accorded For 30.00 lakhs
Head of A/C P3111
CER NO : 474 Dt. 27-12-17
TA CE (YNK)

Certificate.

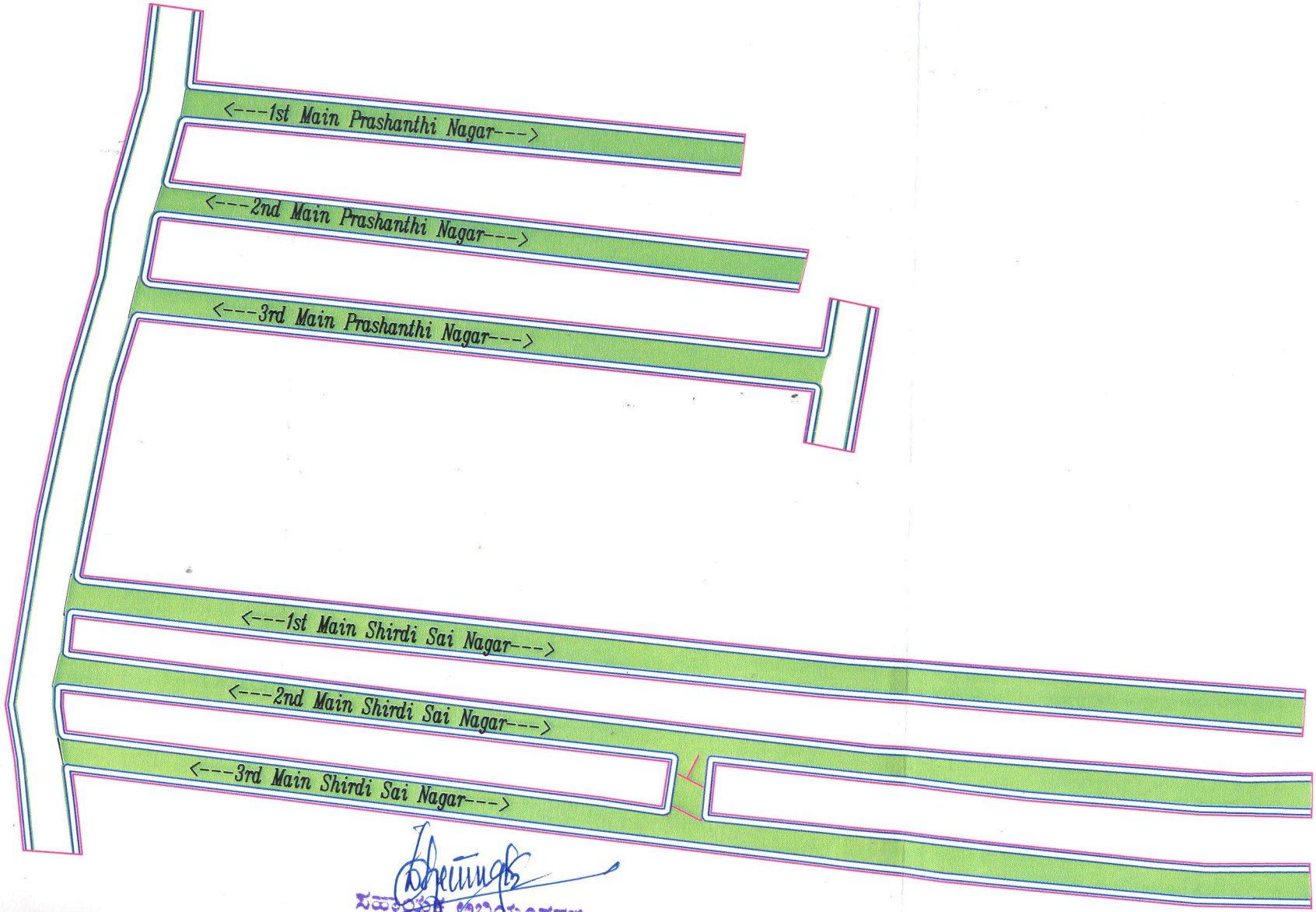
1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
4 The provisions made in the estimate are necessary and essential.

Assistant Engineer | Assistant Executive Engineer | Executive Engineer

KEY MAP – SHIRDI SAI NAGAR



ments to Drains and Asphalting to Roads in Shirdi Sai Nagara and Hegdenagara in Ward No 06 Byata



Ro
Shirdi Sa
1st Main
2nd Main
3rd Main
Prashanth
1st Main
2nd Main
3rd Main

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24